

WHAT IS CLAIMED IS:

1. A method of controlling registration of a mobile station used in a CDMA mobile communication system, said method comprising the steps of:

By searching
pn seq as per claim 3

detecting a result of the registration of said mobile station with a wireless base station for a coverage area in which said mobile station is present;

retrying the registration when the result is unsuccessful after inhibiting switching to a good pilot signal that is being idly received;

pausing transmitting and receiving operation of said mobile station said retried registration is unsuccessful;

12 resuming registration processing under predetermined conditions when the pause ends; and

acquiring a new pilot signal when the registration processing is resumed.

2. A method of controlling registration as set forth in claim 1, further comprising the step of judging that registration has failed when an access sequence for registration is repeated a given number of times in order to detect the unsuccessful registration at first attempt.

3. A method of controlling registration as set forth in claim 1, further comprising the step of judging that a search through a given interval of PN sequences conducted on acquisition of pilot signals has ended is made in order to detect the

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unsuccessful registration at first attempt.

4. A method of controlling registration as set forth in claim 3, further comprising the step of changing state value of a PN code generator in the mobile station to a state value assumed after a lapse of given time and the phase of the generated PN code is shifted when registration of a sector during a search through a given interval of the PN sequences fails.

5. A method of controlling registration as set forth in claim 1, further comprising the step of resuming registration processing when the reception level is judged to be in excess of a given threshold value after a second registration operation fails.

6. A method of controlling registration as set forth in claim 5, wherein said given threshold value is the sum of a reception level assumed when a last registration operation fails and a given offset value based on this reception level.

7. A method of controlling registration as set forth in claim 1, further comprising the step of turning on a light to indicate that the station is out of the coverage area when switching to a good pilot signal being idly received is inhibited and turning off said light when the switching to the good pilot signal being idly received is permitted.

8. A mobile station for use in a CDMA mobile communication system,

said mobile station including a control means for registering

the mobile station with a wireless base station for a coverage area in which said mobile station is present,

said control means acting to inhibit switching to a good pilot signal being idly received when the registration is judged unsuccessful,

said control means acting to retry the registration while the switching to the good pilot signal is inhibited, and acting to pause transmitting and receiving operation of said mobile station when the retried registration is unsuccessful,

[said control means acting to resume registration under predetermined conditions when the pause ends.]

said control means acting to perform a control operation to acquire a new pilot signal when the registration is resumed.

9. The mobile station of claim 8, wherein said control means judges the failure of the registration when an access sequence for registration is repeated a given number of times in order to detect the unsuccessful registration at first attempt.

10. The mobile station of claim 8, wherein said control means turns on a light to indicate that the mobile station is out of the coverage area when switching to the good pilot signal being idly received is inhibited and turns off said light when switching to the good pilot signal being idly received is permitted.

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